

JOURNAL SUPPLEMENT

Vol. 38, No. 12
DECEMBER, 1959

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

ANNUAL GENERAL MEETING, 1960

Members are hereby notified that the Annual General Meeting of The Institution of Production Engineers will be held at 10 Chesterfield Street, Mayfair, London, W.1, at 2 p.m. on Thursday, 28th January, 1960. (not 29th January, as stated in Diary Dates on page 717 of the Journal.)

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TECHNOLOGY
DEPARTMENT

LORD AUSTIN PRIZE — AMENDED CONDITIONS OF ENTRY

At the Meeting of Council held on Thursday, 29th October, 1959, it was agreed that the conditions of entry for The Lord Austin Prize should be amended to include Student members of the Institution. The Award is, therefore, now open to all Student and Graduate members between the ages of 21 and 30 years inclusive.

The Lord Austin Prize is offered annually for competition and is awarded for the best essay on one of two set subjects.

The closing date for the 1959 Prize is Thursday, 31st December, 1959.

Full details regarding the Terms of Reference of the Prize and the subjects set for this year are available from The Registrar, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1.

B.P.C. VARIETY REDUCTION SEMINARS, 1959-60

Local Productivity Committees and Associations are organising Variety Reduction Seminars during 1959 - 60, and members of The Institution of Production Engineers are invited to attend these meetings.

During January, 1960, meetings will be held in Derby, on 5th and 6th January, and in Stoke-on-Trent, on 19th and 20th January. Full particulars may be obtained from Mr. W. L. Mounsey, Derby and Derbyshire Chamber of Commerce, Britannic House, 5 - 7 St. Mary's Gate, Derby; and Mr. S. H. Jerrett, Director, British Pottery Manufacturers Federation, Federation House, Stoke-on-Trent.

SECTION MEETINGS

Visitors Tickets may be obtained from Section Honorary Secretaries

DECEMBER, 1959

EAST AND WEST RIDINGS REGION

Doncaster 7 p.m. December 8th
The Doncaster Technical College, Doncaster.
"The Production Engineer and His Institution" by G. R. Pryor, M.I.Prod.E., F.B.I.M.
Halifax and Huddersfield 7.30 p.m. December 8th
The Percival Whitley College of Further Education, Francis Street, Halifax.
"Epoxy Resin Tooling" by E. M. White, illustrated by coloured slides.
Leeds 7 p.m. December 14th
Hotel Metropole, King Street, Leeds, 1.
"Materials Purchase as an aid to Production" by D. H. Brandon.
Sheffield 7.15 p.m. December 14th
Grand Hotel, Sheffield.
"Fabrication of Heavy Steel Components" by W. Plews.
Joint Meeting with the Institute of Welding.

MIDLANDS REGION

Birmingham Graduate 7 p.m. December 8th
The James Watt Memorial Institute, Great Charles Street, Birmingham.
Ladies Invitation Evening and Film Show.
"Conquest of the Atom" and a colour film on the Cotton Industry. Teas will be served from 6.30 p.m.
Coventry Graduate 7.15 p.m. December 10th
Works visit to Renold Chains Ltd., Coventry Chain Works, Coventry.
"Production of Precision Transmission Chains"—a short talk by a member of the Company, followed by a tour of the Works.
Rendezvous at the Main Entrance.
Wolverhampton Graduate 2.30 p.m. December 10th
Works visit to Quasi-Arc Ltd., Bilston, Staffs.
7 p.m. for 7.30 p.m. December 18th
Mount Hotel, Tettenhall, Wolverhampton.
Annual Dinner-Dance.

NORTHERN REGION

Newcastle upon Tyne 7 p.m. December 14th
The Rutherford Technical College, Northumberland Road, Newcastle upon Tyne.
Film Evening.
Ladies are invited.

Newcastle upon Tyne Graduate 6.30 p.m. December 8th
The Rutherford Technical College, Northumberland Road, Newcastle upon Tyne.
Film Evening, including—"An Introduction to Modern Gears" and "1958 British Grand Prix".

NORTHERN IRELAND REGION

Northern Ireland 7.30 p.m. December 10th
The Kensington Hotel, Belfast.
"Extraction and Fabrication of Aluminium" by D. H. Abel.

NORTH WESTERN REGION

Liverpool 7.30 p.m. December 9th
The Liverpool Central Libraries, William Brown Street, Liverpool.
"The Development of the Sewing Machine".
Joint Meeting with the Liverpool and District Scientific Industrial and Research Library Advisory Council.

SCOTTISH REGION

Glasgow 7.30 p.m. December 17th
The Institution of Engineers and Shipbuilders, 39 Elmbank Crescent, Glasgow, C.2.
"Welding and Marine Engineering" by J. A. Dorrat.

SOUTH EASTERN REGION

London Graduate 7.15 p.m. December 8th
10 Chesterfield Street, Mayfair, London, W.1.
"Structural Testing" by W. Hampton, A.F.R.Ae.S.
Luton Graduate 7.30 p.m. December 9th
The Lecture Theatre, Luton College of Technology.
"Development of Very Large 3 Co-ordinate Measuring Machines with Numerical Control" by W. H. Jaye, B.Sc.(Eng.), A.M.I.Prod.E.
South Essex 7.30 p.m. December 2nd
The Municipal College, Southend on Sea.
"Some Factors Affecting Cutting Tool Performance" by A. I. W. Moore, of PERA.

WALES REGION

Swansea 7 p.m. December 16th
The Central Library, Swansea.
"Lighting and Colour as an Aid to Production" by R. Davies.

INSTITUTE OF WELDING—WOLVERHAMPTON BRANCH

Members of the Wolverhampton Graduate Section of the Institution of Production Engineers are cordially invited to attend a lecture on "Welding and the Draughtsman", which is to be held on **Tuesday, 15th December, 1959, at 7.30 p.m. at the Wolverhampton College of Technology.** The speaker will be H. B. Merriman, of The Kellogg International Corporation.

PRODUCTION APPOINTMENTS

BULLETIN No. 75
DECEMBER 1959

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to: The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROsvenor 5254).

RATES — Run-on, per appointment: £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof. Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

Displayed: £6 per single-column inch (column width 3½ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. *Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.*

Work Study Engineers. W. H. Allen, Sons & Co. Ltd., Bedford, require for their Production Engineering Department, Work Study Engineers experienced in method improvements and work measurement in machine or assembly shops. These positions will interest men of sound education and practical experience, who can carry out on their own initiative, studies and investigations into problems affecting the small-batch production of electrical machinery, diesel engines, steam and gas turbines and centrifugal pumps. **Draughtsmen** for the design of jigs, tools, fixtures and tool layouts. Good conditions of employment with contributory pension and life assurance schemes. Please apply in writing, stating age, present salary and full details of education, training and experience to the Personnel Manager.

Engineer required as Assistant to Director. Age 23-28 years. Preferably with Higher National Certificate in Mechanical Engineering. Duties will include design and development work and some travelling will be involved. This is a senior appointment with a commencing salary of not less than £800 per annum. Prospects are excellent the factory being located in the Midland area. Write giving full details of training, positions held, etc. to: Box No. 1900, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

ASHMORE, BENSON, PEASE & CO. LTD.,
Stockton-on-Tees
require an
ENGINEER
to lead a Work Study Team.

Applicants should be familiar with fabrication and machine shop processes and have had experience of applying work study techniques to these classes of work.

Reply stating age, experience and salary, to
Staff Personnel Officer.

PRODUCTION CONTROL

A vacancy exists for a man to take charge of the section in the Switchgear Works at New Cross. Experience in Machine Shop and Assembly Control embodying flow and batch production. Age group 30-40 years. Good Superannuation scheme. Canteen and Social facilities. Applications giving particulars of training and experience together with salary expected to: **Employment Manager, Johnson & Phillips Ltd., Charlton, London, S.E.7.**

Works Manager required for medium sized heavy engineering works in Glasgow. Must be sound production engineer with experience of controlling and directing labour. State age, experience and salary expected. Box No. 1901, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

PLANT LAYOUT DEPARTMENT

A vacancy occurs with a leading motor car manufacturer for a man to take charge of the Plant Layout Department. Applicants should have had experience in this particular field both with regard to layout, planning and design of equipment.

This is a senior position and applicants must have appropriate qualifications.

Apply in writing giving full details to:
Box No. 1905, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Hawker Siddeley

INDUSTRIAL
DIVISION

BRUSH ELECTRICAL ENGINEERING CO. LTD., LOUGHBOROUGH

Applications are invited from

SENIOR METHODS ENGINEERS

who could influence the design of products in order to facilitate the production of various types of
CONTROL GEAR

Previous experience in methods work in the assembly and allied fields is essential.

Applications, WHICH WILL BE TREATED IN THE STRICTEST CONFIDENCE, should give brief details of past experience and qualifications and should be addressed to the:

Chief Personnel Officer,

Brush Electrical Engineering Company Limited, Loughborough, Leics., and should quote reference PL 9012

Manufacturing Manager required by engineering Company to control works employing over 2,000 on precision work. Applicants must have had a sound workshop training and be thoroughly familiar with precision machining and heat treatment processes on high grade steels. Expert knowledge of tooling and of production control essential. Preference will be given to one who has held similar post, responsible for all aspects except design, sales and accounts. Must be good team leader with initiative and drive. Aged between 35-45. Salary range £2,750-£3,500. Please reply in confidence to: Box No. EJ.1013 LPE, Romano House, 399-401 Strand, London, W.C.2.

Company engaged in the manufacture of high grade process plant has vacancies for the following

- A ESTIMATORS AND "TAKERS OFF"
- B PLANNERS
- C DRAUGHTSMEN — Senior and Junior

Applicants should have experience in process plant and pressure vessel manufacture including sheet metal or coppersmith's work.

For A and B, part-time employment would be considered.

Write in first instance giving full particulars of experience to: Box No. 1895, I.Prod.E. 10 Chesterfield Street, Mayfair, London, W.1.

Works Manager required by leading Midland Company. This opening, which carries exceptional prospects, demands an engineer with a highly successful record of shop supervision at Superintendent or higher level. The Company's activities involve both line and batch production and experience in the production of vehicle transmissions would be an advantage. Essential qualifications: full works training, 5 years' experience controlling labour forces of not less than 500, O.N.C. or higher technical qualifications. All replies will be treated in strict confidence. Write to: Box No. 1902, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1, marking envelope Confidential to Works Director.

Project Engineers — Engineers wanted for the development of machinery and techniques for a wide variety of printing and allied processes. Good general education, practical apprenticeship, O.N.C. minimum and adaptability are the principal requirements. Methods engineering experience an advantage. There are opportunities for travel and advancement in this Company of unusually uninhibited and vigorous outlook. Applications should be sent to Personnel Officer, Thomas De La Rue & Company, Bunhill Row, E.C.1.

Works Manager. A leading valve manufacturer situated in the Midlands requires a Works Manager who will report to the Production Director. This appointment carries ultimate responsibility for supervision of 150 operators and drive is an essential personal quality. The successful applicant will be required to give guidance on production methods, production control and work study and corporate membership of a recognised engineering institution is desirable. The Company operate a non-contributory pension scheme and, where necessary, applicants should be prepared to move to the area. Applications, in confidence, are invited from men in the 38-48 age range, with experience of non-ferrous foundry and machining techniques, capable of handling male and female labour, and who are currently earning not less than £1,250 per annum. Full details of education, personal background, training, experience and salaries earned should be sent to: Box No. 1907, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

LOCKHEED HYDRAULIC BRAKE CO. LTD.

has a vacancy for a

SENIOR FOREMAN

in one of the Bought Out Inspection Sections of the Company.

Essential qualifications include a practical and technical engineering training covering modern machine tool assembly and inspection practice including sampling inspection and quality control.

Applicants should have had experience in a supervisory capacity and have reached H.N.C. or equivalent standard.

This is a monthly staff appointment and the successful applicant will also participate in the Company's profit sharing and pension schemes.

Applications in writing giving full details of age, experience and qualification to the:

Employment Officer,

**Lockheed Hydraulic Brake Co. Ltd.,
Tachbrook Road, Leamington Spa, Warwickshire.**

WESTINGHOUSE BRAKE & SIGNAL CO. LTD.

Workstudy Training Officer

An appointment is to be made to the staff of the Training Division at Chippenham of a Workstudy Training Officer, whose duties will include the training of supervisors, technical staff and junior personnel in Method Study and in Work Measurement, with some opportunity for direct method study work.

Applicants should have H.N.C. (Production or Mechanical) with factory experience in batch and jobbing manufacture of light and medium sized engineering products, and practical experience in the application of work study.

Apply in writing giving age, qualifications, experience and present salary to The Personnel Superintendent, Westinghouse Brake & Signal Co. Ltd., Chippenham, Wiltshire, quoting reference T/2/IPE.

An additional member of staff, age 35-45, is required by PERA, Melton Mowbray. Several years' experience of applying Work Study or Operational Research techniques to management problems in the engineering industry and/or executive responsibility in Management, Production Control or Accounting is desirable. The appointment involves some travel but staff should be willing to reside in the locality. A wide range of work is covered in many industries and it is essential that applicants have analytical ability yet a practical and flexible outlook. Qualified personnel are eligible for F.S.S.U. benefits. Applications, in confidence, should include full details of education, qualifications, experience, salary and outside interests, and should be addressed to the Secretary, (0.605), PERA, Melton Mowbray, Leics.

ENGLISH ELECTRIC

require

MANUFACTURING ENGINEERS

Our Rugby Works have vacancies for Manufacturing Engineers to work on the Shop Floor on various production techniques and methods. The scope of the work is broad, calling for liaison with Shop Floor Supervision, Planning, Production Control, Engineering Departments, etc.

Applicants, who should be aged about 30, must hold an H.N.C. or equivalent qualification and must have served a recognised apprenticeship in heavy engineering.

If you are interested in these posts which require an ability for original thinking please write to Department C.P.S., Marconi House, 336-337 Strand, London, W.C.2, quoting reference PJ 1194C, giving details of qualifications and experience.

JAGUAR CARS LIMITED

require

WORK STUDY ENGINEERS

Applicants should have had a minimum of three years' experience in estimating and rate fixing, preferably in the motor car industry.

Details in writing, including any apprenticeship or other types of specialised training, to be forwarded to:

Personnel Officer,

Jaguar Cars Limited — Coventry.

Deputy to Chief Engineer: Divisional Engineers: Simmonds Aerocessories Limited, Treforest Industrial Estate, Near Pontypridd, Glamorgan. A progressively expanding Company, situated in pleasant surroundings close to Cardiff, have the following vacancies. **Deputy to Chief Engineer:** This is a challenging and interesting post with good promotion prospects for a Graduate Engineer of wide experience to co-ordinate and inspire development and production teams ranging from fasteners to valves, pumps, filtration, and allied specialised mechanical units. **Divisional Engineer:** In charge of fuel handling section. Experience of valves, pumps, pressure vessels and fluid flow problems. H.N.C. standard. Minimum age—25 years. **Divisional Engineer:** To take charge of new section dealing with the development and design of carburettor air filters and silencers. H.N.C. standard. Minimum age—25 years. Contributory pension and welfare schemes. Apply, in strict confidence, with full details of age, training and experience, in writing to the Personnel Manager.

PRODUCTION EXECUTIVE

An engineer with wide experience in production engineering is required by an old-established company employing approximately 500 in North Nottinghamshire. The successful candidate, who will be required to initiate and lead a new Production Engineering Section, covering Fitting, Machine and Structural shops, Drop Forge and Foundry, should preferably be aged between 30 and 40, possess a Higher National Certificate in Production or Mechanical Engineering and have at least 5 years' experience as a Production Engineer in the work mentioned.

The Company, which is situated in an attractive part of the country, offers a progressive career to the right candidate, and will pay a salary commensurate with past experience and qualifications.

Applicants are asked to send, in strict confidence, details of their career to date, stating positions held, responsibilities and salary level to URWICK, ORR & PARTNERS LIMITED, who have been asked to advise in connection with this appointment, at Urwick House, 14 Hobart Place, London, S.W.1, quoting reference M/1340 on the envelope.

**HAWKER SIDDELEY
INDUSTRIAL DIVISION
BRUSH ELECTRICAL ENGINEERING
CO. LTD.
LOUGHBOROUGH**

★ ★
A SENIOR METHODS ENGINEER

is required to deal with Machine Shops engaged in the manufacture of Medium/Heavy electrical machinery. Applicants should be conversant with all types of machine tools and must be capable of suggesting changes of method to achieve cost reduction in machine shop operations.

★ ★

Applications, which will be treated in the strictest confidence, should give brief details of experience and qualifications and should be addressed to the

**Chief Personnel Officer
Brush Electrical Engineering Company Limited,
Loughborough, Leics.
and should quote reference PL 9008.**

Experienced Electrical Production Engineer required with complete knowledge of automatic contactor gear and control gear for cranes. Good salary paid to suitable applicant. Apply to: Box No. 1904, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

PRODUCTION MANAGER

for old established and well equipped Engineering Firm near Glasgow, employing a labour force of 1,200. The technical qualification should be an Engineering Degree or H.N.C. in Mechanical or Production Engineering. Experience in working to fine limits, gear-cutting and heat-treatment an advantage. Applications will be considered from experienced practical engineers aged 35-45 who are already occupying a responsible position in the engineering industry and who have the ability to organise and lead an existing team. The position is superannuated and the salary will be according to age and experience, but will not be less than £2,000 per annum. Canteen facilities are available.

**Box No. 1906, I.Prod.E., 10 Chesterfield Street,
Mayfair, London, W.1.**

D. NAPIER & SON LTD.

ACTON, W.3.

require

**SPECIALIST
PRODUCTION ENGINEERS**

Outstanding opportunities exist for qualified mechanical and electrical engineers to develop modern production techniques in the following fields :-

**Resistance and Fusion Welding
Ultrasonic Testing
Spark Machining
Precision Fabrication**

High salaries will be paid to applicants having the right experience, who can bring enthusiasm and energy to this interesting work.

If you would like to hear more about these opportunities, we should be very pleased to hear from you in confidence. Please reply to: D. Napier & Son, Department C.P.S., Marconi House, 336 - 337 Strand, London, W.C.2, quoting reference PE 794G.

**NEW LARGE BICYCLE FACTORY
SITUATED IN ASSAM, INDIA.**

requires

ENGINEER

Highly experienced in all the processes and in installation of Plants and Machineries, capable of taking independent charge of the Factory.

Salary between £1,800 - £2,700 per annum, according to qualifications. Free furnished accommodation provided. Applicant should not be more than 55 years old.

**Write to : Box No. 1909, I.Prod.E., 10
Chesterfield Street, Mayfair, London, W.1.**

Production Manager wanted by progressive and rapidly expanding company, London area, manufacturing electronic assemblies. Excellent position and opportunity. Attractive salary to right applicant. Apply to: Box No. 1903, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

**BRUSH ELECTRICAL ENGINEERING CO. LTD.
LOUGHBOROUGH**

Applications are invited for
SENIOR METHODS ENGINEERS

with experience in Medium/Heavy Electrical Engineering. Responsibilities will include the influencing of the design and manufacture of component parts and establishing improved methods in assembly.

This old established Company (which is now a member of the Hawker Siddeley Group) operates a contributory pension scheme and salaries will be paid commensurate with the importance of the above mentioned appointments. Applications, which will be treated in the strictest confidence, should give brief details of experience and qualifications and should be addressed to the

Chief Personnel Officer

**Brush Electrical Engineering Company Limited,
Loughborough, Leics.
and should quote reference:- PL 9016.**

Chief Engineer required by small but progressive light engineering company in Sussex, manufacturing own specialised precision products. Position would entail responsibility for design and development work. Applicants should preferably have a degree in Mechanical Engineering and a sound knowledge of thermodynamics. Apply giving full details of experience, age, present salary and salary required to: Box No. 1908, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

EDUCATIONAL APPOINTMENTS

Work Study School, Cranfield.

The expanded programme for 1960 provides for additional appointments to the teaching staff. Requirements are a sound background in work study practice and special experience in one of the following: Office systems and procedure, design and pre-production, statistical methods. Applications will also be considered from retiring officers (Major or equivalent and above) experienced in the application of work study in the services. Salary according to qualifications and experience in the scales: senior lecturer grade £1,700 × £75 — £2,150; lecturer grade £900 × £50 — £1,350 × £75 — £1,650; with superannuation under F.S.S.U. and family allowance. Applications giving full particulars and quoting the names of three referees, to the Recorder, The College of Aeronautics, Cranfield, Bletchley, Bucks. Further particulars available.

Medway College of Technology, Production Engineering Department.

Assistant Lecturer, Grade B. Applications are invited for the above post. Candidates should hold a Higher National Certificate in Production or Mechanical Engineering, or its equivalent. Good practical training and experience are very desirable. The scope of teaching offered within the Department covers a very wide range from the practical instruction of craft apprentices and the ancillary subjects of City and Guilds courses to Higher National Certificate Production Engineering subjects. Salary in accordance with the Burnham Scale for Teachers in Technical Colleges within the range £700 - £1,150. Commencing salary will depend upon training and previous industrial or teaching experience. Details and forms of application can be obtained from the Principal, Medway College of Technology, Horsted, Maidstone Road, Chatham, Kent. (stamped addressed envelope.)

IMPROVED MATERIAL UTILISATION

A new Report, compiled by the Material Utilisation Sub-Committee of the Institution's Research Committee, is now being printed and will be available very shortly.

The Report, which contains over 80 proved Case Studies, covers the fields of Finishes and Finishing Materials; Packaging and Shipping Materials; Ceramics, Metal Powders and Plastics; and Ancillary Processing Materials. Copies may be ordered, price 12/6d. each (plus 1/- postage and packing) from the Publications Department, 10 Chesterfield Street, Mayfair, London, W.1.

THE LIBRARY

Redecoration of the Library and Library Office is being carried out during December, and consequently the staff will be working under some difficulty. Every effort will be made to maintain the usual postal service, but members are advised that the Library itself will not be available for consultation or study until after Christmas.

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